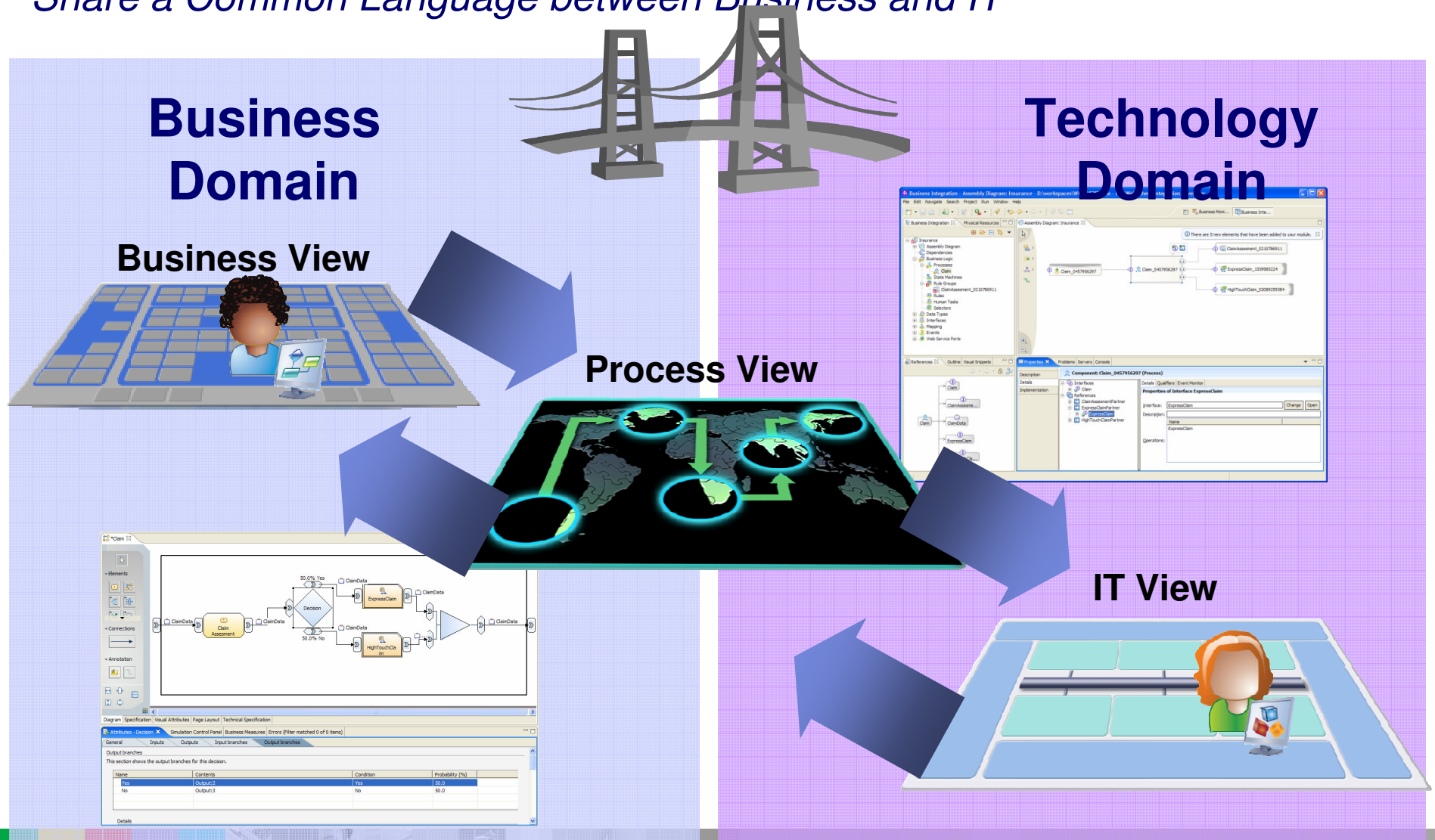# Effective Process Modeling with WebSphere Business Modeler

Technical Overview

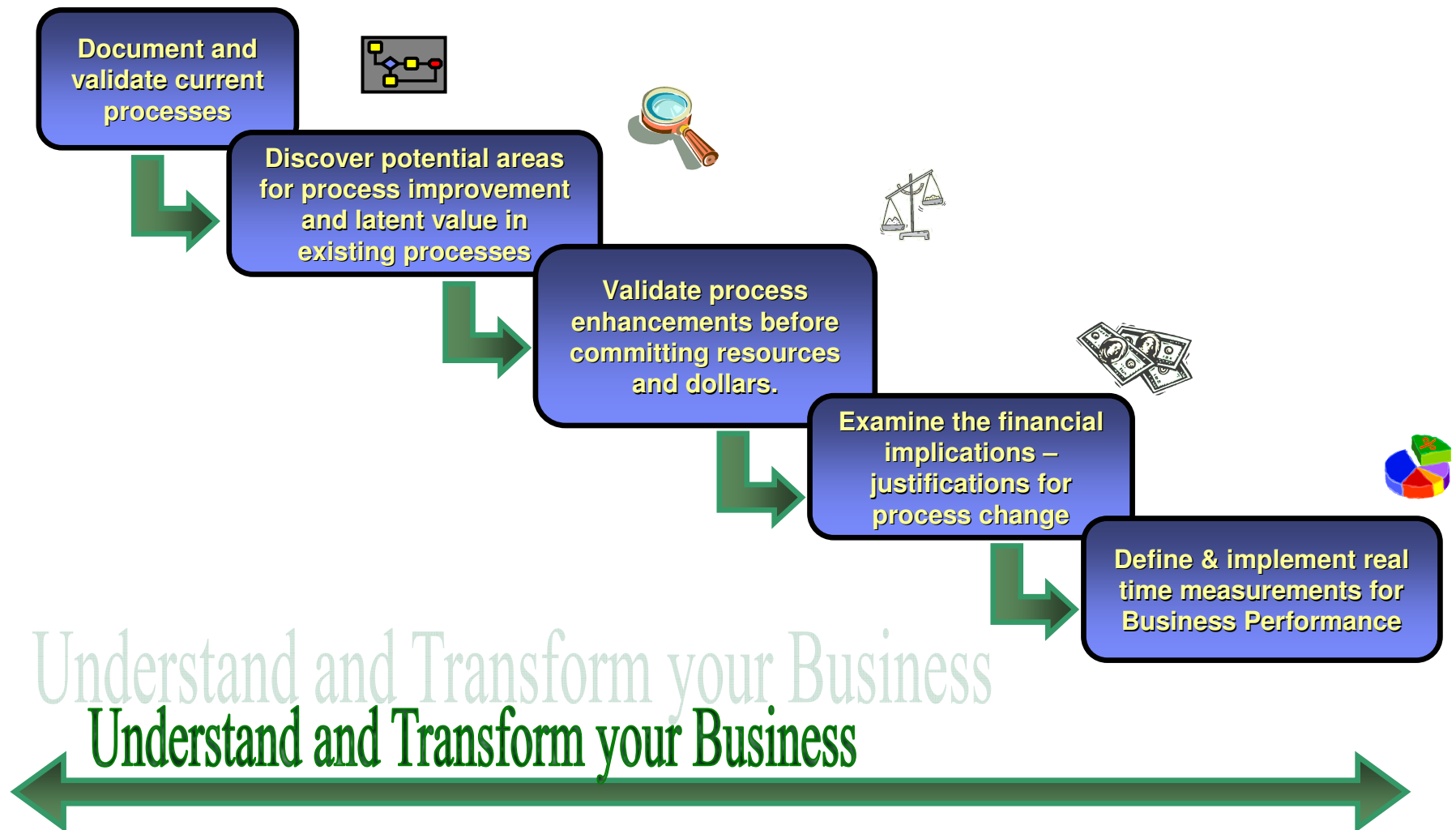# Business and IT Struggle to Communicate Effectively
*Share a Common Language between Business and IT*

Business Domain

Technology Domain

Business View

Process View

IT View

Benefits of Business Modeling and Analysis

Document and validate current processes

Discover potential areas for process improvement and latent value in existing processes

Validate process enhancements before committing resources and dollars.

Examine the financial implications – justifications for process change

Define & implement real time measurements for Business Performance

Understand and Transform your Business

Modeling helps you improve business processes
Three purposes for process modeling

Documentation & Compliance

Redesign & Optimization

Execution

Process governance

- Existing: Sarbanes Oxley in US; WEEE and RoHS in EU
- Forthcoming: Carbon emissions
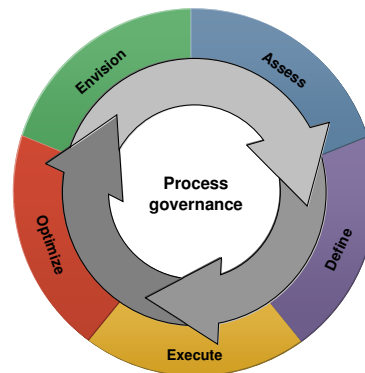
- Increase efficiencies
- Reduce costs/waste/errors
- Six Sigma – Lean initiatives
- Increase visibility into end-to-end processes
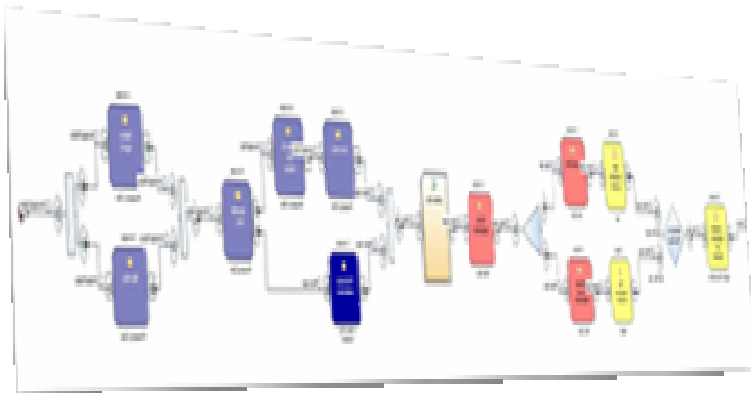
- Offer new products & services
- Compete effectively in global economy
- React quickly to unexpected situations

Business Process Design
Understanding your business processes

**IBM WebSphere
Business Modeler**

- Helps you understand and transform your business

- See complex behaviors in simple processes

- Discover areas for process improvement and latent value in existing processes

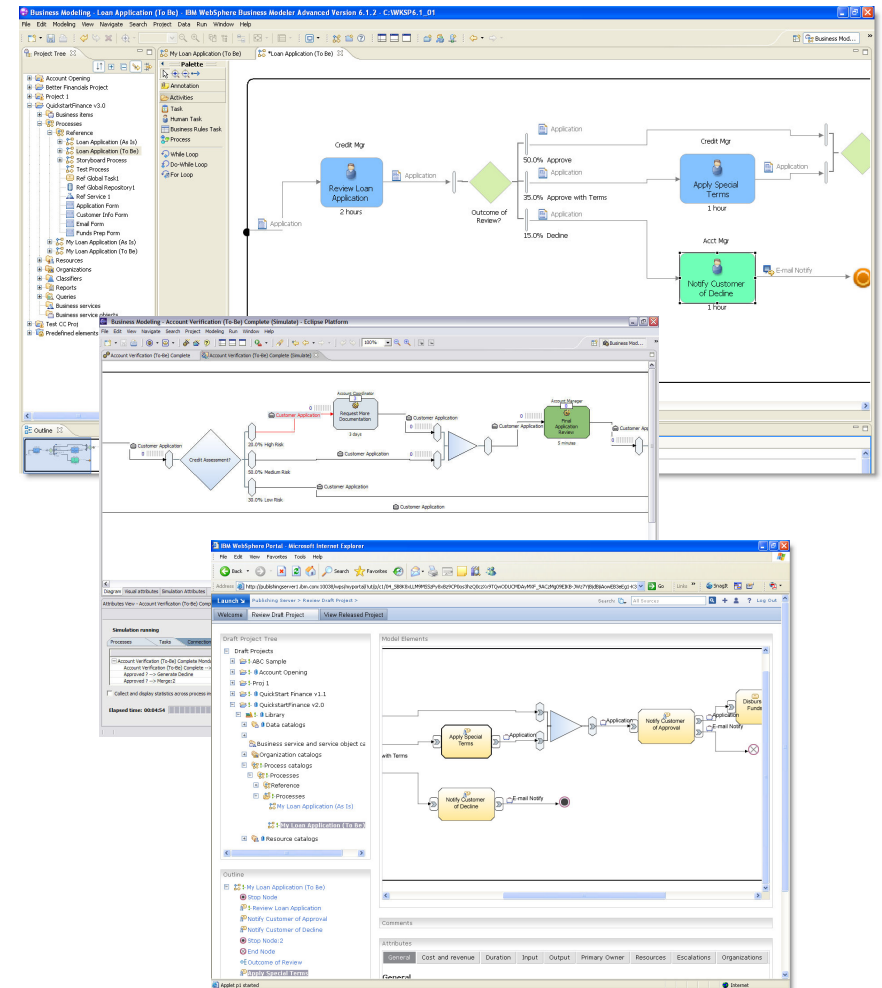- Validate enhancements prior to committing resource & implementing technical solutions

- Examine the financial implications and justification for process change

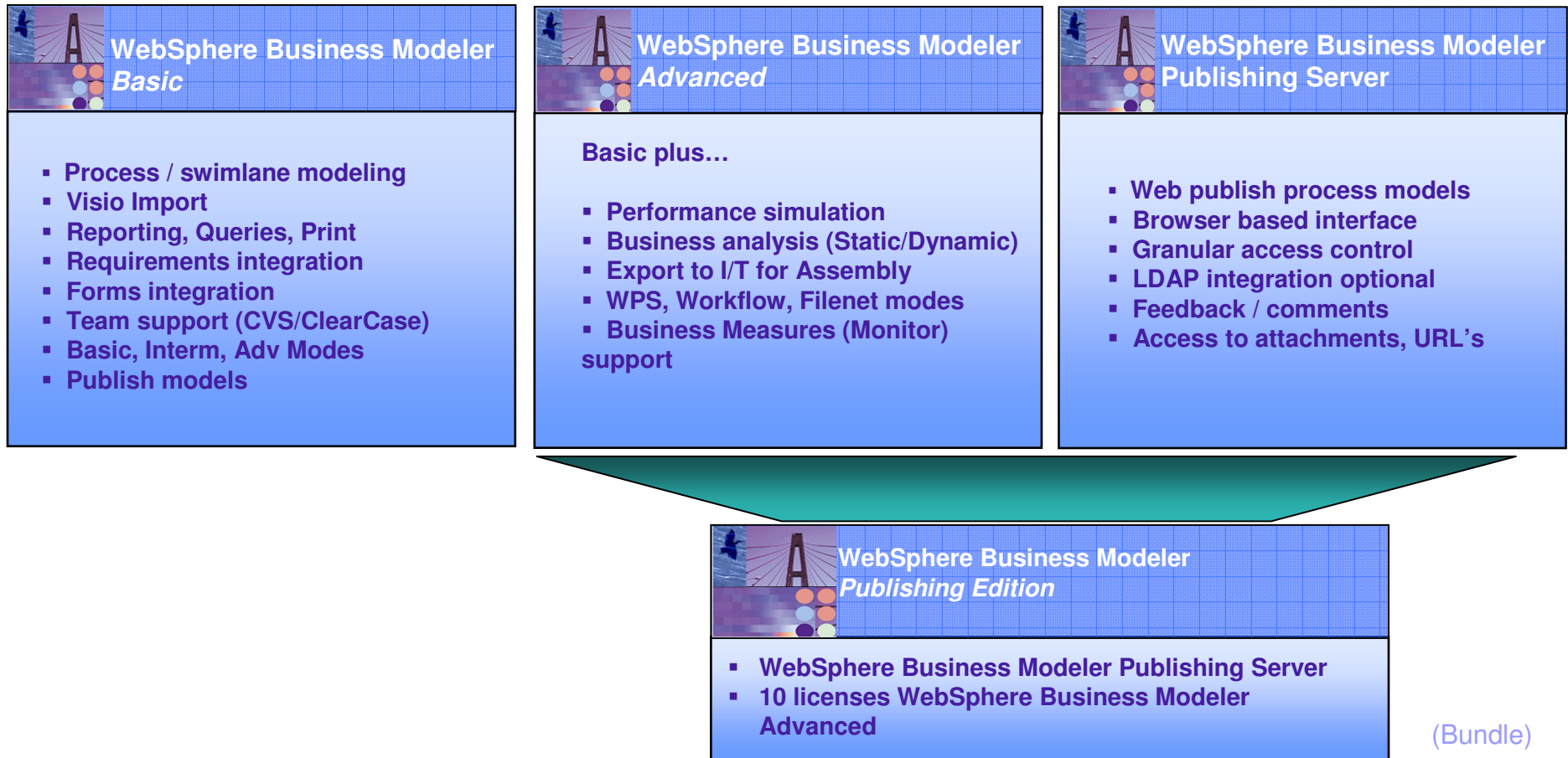- Establish initial targets for process performance

- Define a business measurement structure with rigor and repeatability

WebSphere Business Modeler – *Best in Class Business Modeling and simulation.*
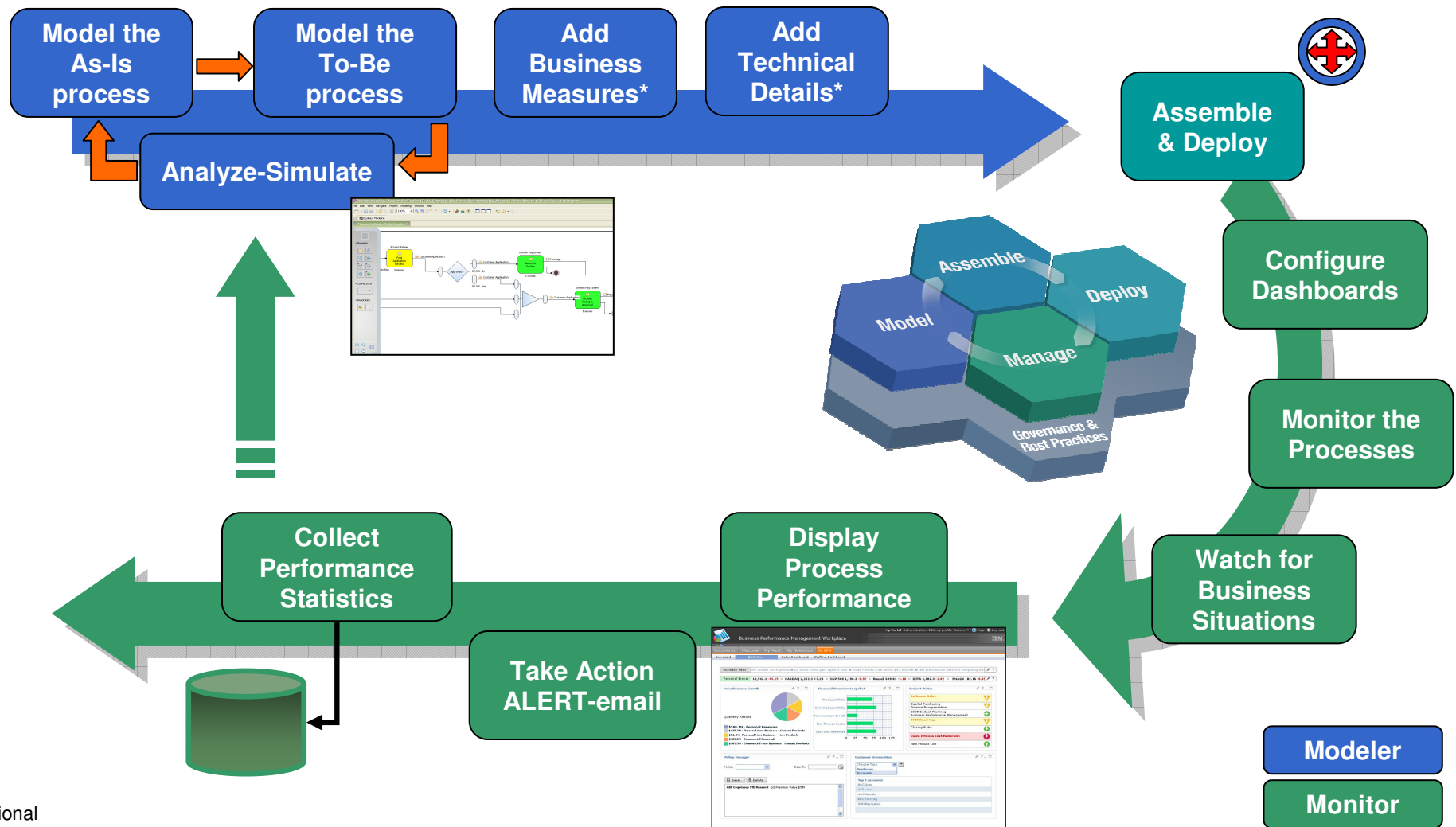
● Simple to use business modeling tool

▶ Allow the people who know the business to model

▶ Drag and drop for the business analyst

● Precise modeling of the vital aspects of the process

▶ Add costs, durations, resources; bring your process to life using simulation.

▶ Understand your business models and make informed decisions before deployment

▶ Integrate forms with the process model

▶ Capture KPI's, metrics for later monitoring.

● Collaborative modeling

▶ Communicate and participate across your enterprise

▶ Enables teamwork and Web publication

● Clean hand-off to I/T

▶ Faster and more accurate deployment of your solutions

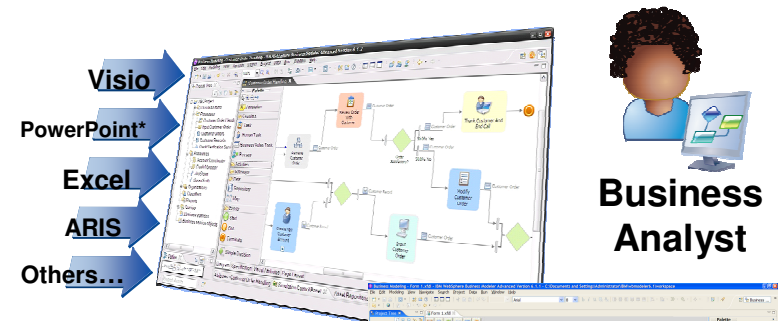▶ Business modeling is the starting point for I/T deployment

WebSphere Business Modeler offerings

WebSphere Business Modeler
Basic

- Process / swimlane modeling
- Visio Import
- Reporting, Queries, Print
- Requirements integration
- Forms integration
- Team support (CVS/ClearCase)
- Basic, Interm, Adv Modes
- Publish models

WebSphere Business Modeler
Advanced

Basic plus…

- Performance simulation
- Business analysis (Static/Dynamic)
- Export to I/T for Assembly
- WPS, Workflow, Filenet modes
- Business Measures (Monitor) support

WebSphere Business Modeler
Publishing Server

- Web publish process models
- Browser based interface
- Granular access control
- LDAP integration optional
- Feedback / comments
- Access to attachments, URL's

WebSphere Business Modeler
Publishing Edition

- WebSphere Business Modeler Publishing Server
- 10 licenses WebSphere Business Modeler Advanced

(Bundle)

BPM Lifecycle – product view

Model the
As-Is
process

Model the
To-Be
process

Add
Business
Measures*

Add
Technical
Details*

Assemble
& Deploy

Analyze-Simulate

Configure
Dashboards

Monitor the
Processes

Collect
Performance
Statistics

Display
Process
Performance

Watch for
Business
Situations

Take Action
ALERT-email

Model

Assemble

Deploy

Manage

Governance &
Best Practices

Modeler

Monitor

*optional

Business Analysts use WebSphere Business Modeler

Visio

PowerPoint*

Excel

ARIS

Others…

Business Analyst

- **Model**
  - ▸ Business Process, organizations, resources, roles
  - ▸ Leverage existing Business Services from WSRR / WID
  - ▸ Human workflows with Forms for user interaction
  - ▸ Staff assignments
  - ▸ Business rules
  - ▸ Leverage Predefined KPIs

- **Simulate and Analyze**
  - ▸ ROI analysis
  - ▸ Cost, time, resource analysis

- **Storyboard**
  - ▸ Capture and playback the flow and user interaction

- **Collaborate and Team**
  - ▸ Share with business stakeholders
  - ▸ Manage assets in BPM repository

- **Realize**
  - ▸ Deploy and Test the business process on WPS and Monitor sandbox
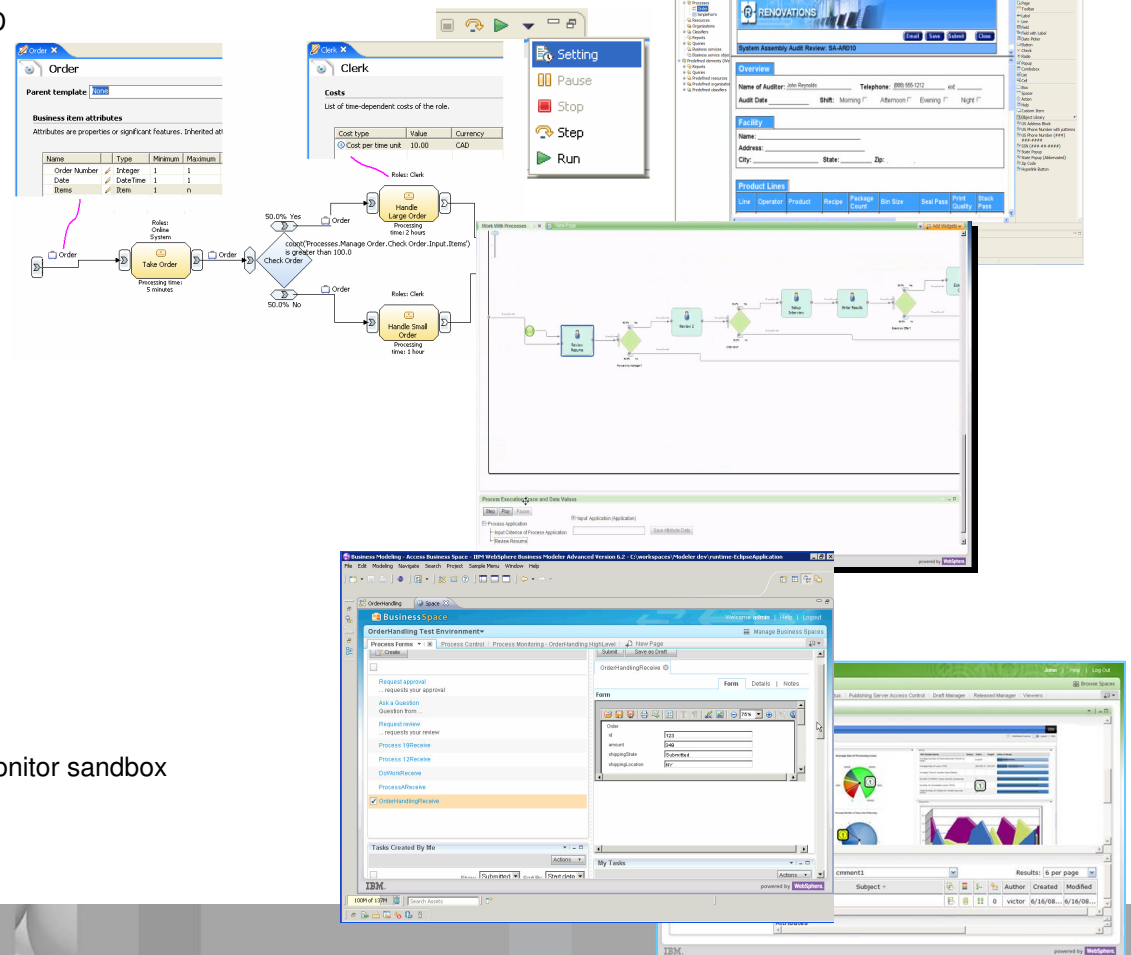
WebSphere Business Modeler Layout

Eclipse 3.2 Framework
Standard layout for IBM development tools

Project Tree
Navigate through a structured view of models and related elements

Process Editor
Compose process models and edit other reusable elements

Predefined Elements
Help you get started

Outline View
Navigate the open process model

Attributes View
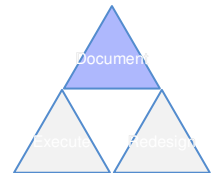Access detailed information about the open process model
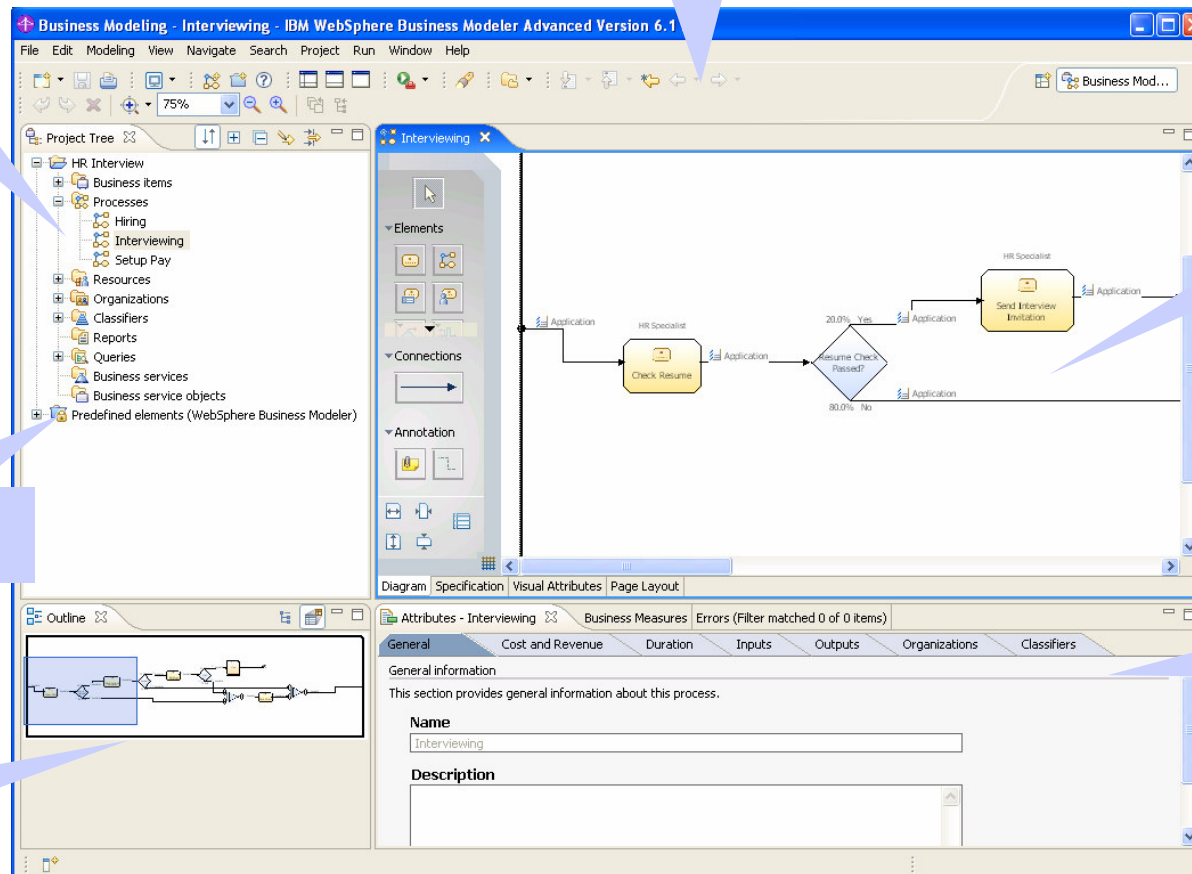
Visio Import
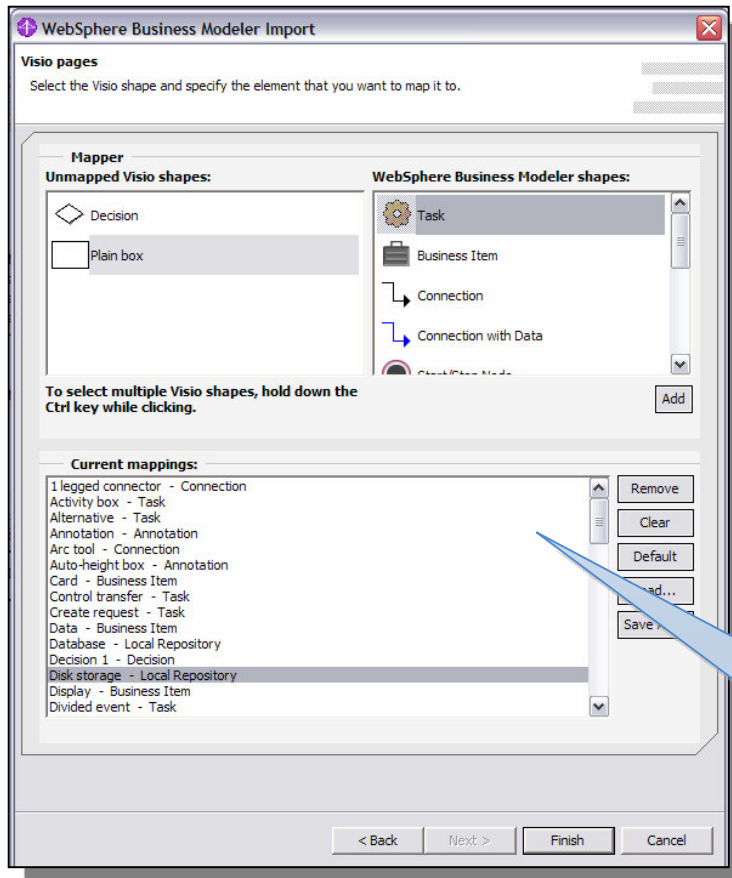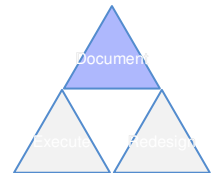
- Start modeling effort by reusing existing process work, if available

- Common Visio elements are pre-mapped to their Modeler counterparts
  - ▸ Custom element mapping capabilities available

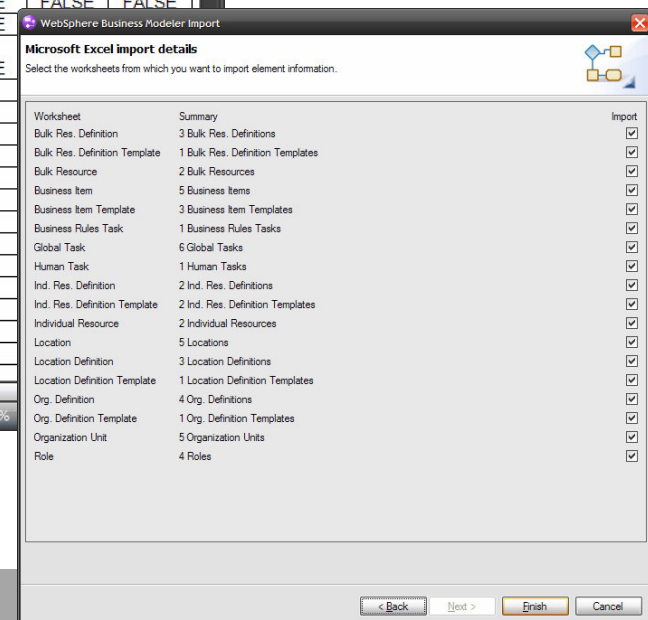Reduce rework, protect investments, ease transition to new tooling
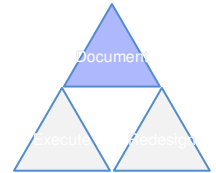
PowerPoint Import
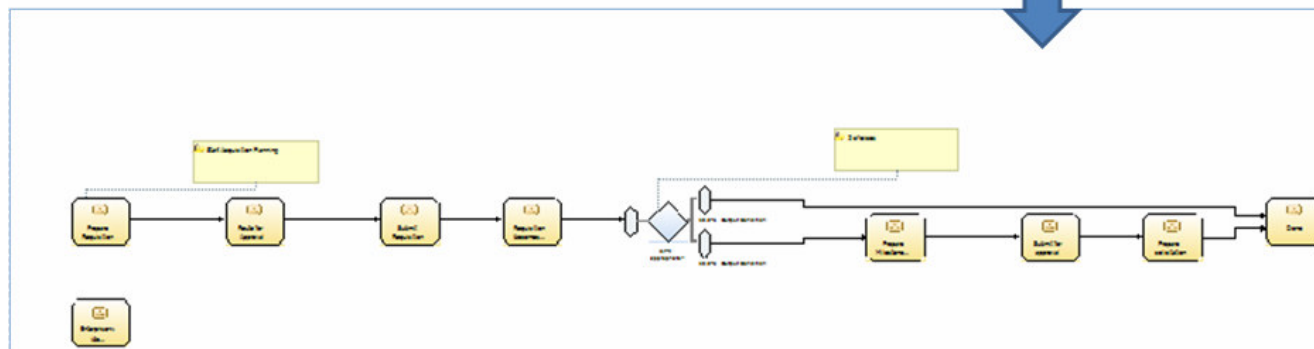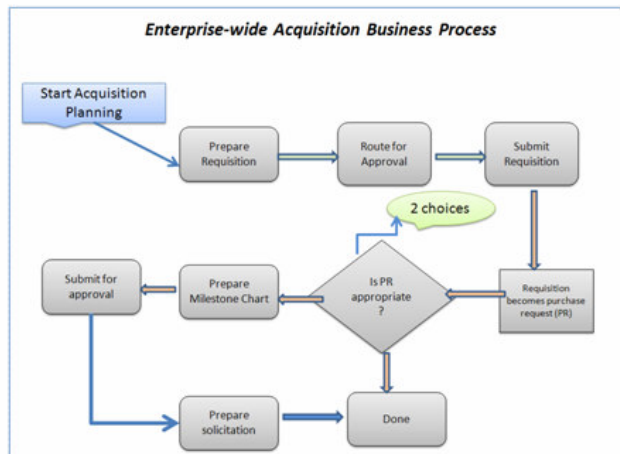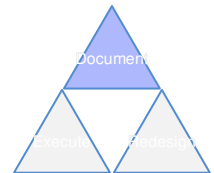
Template-based Excel™ import

Use templates to import process model content from Excel™ and Open Office formats
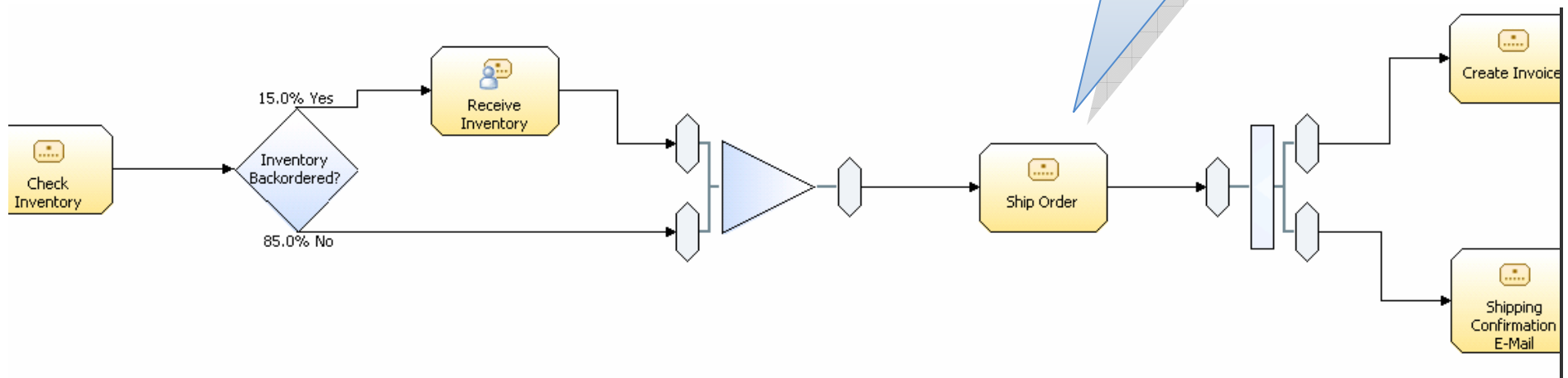
Document Process Flow

- Simple drag-and-drop interface
- Process diagrams are easy to read and interpret
- Capture process activities and decision logic
  - ▸ Use existing process collateral, interview involved parties and key stakeholders

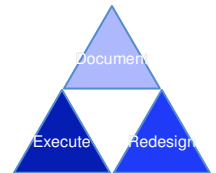Common understanding of processes throughout the organization, compliance is well documented
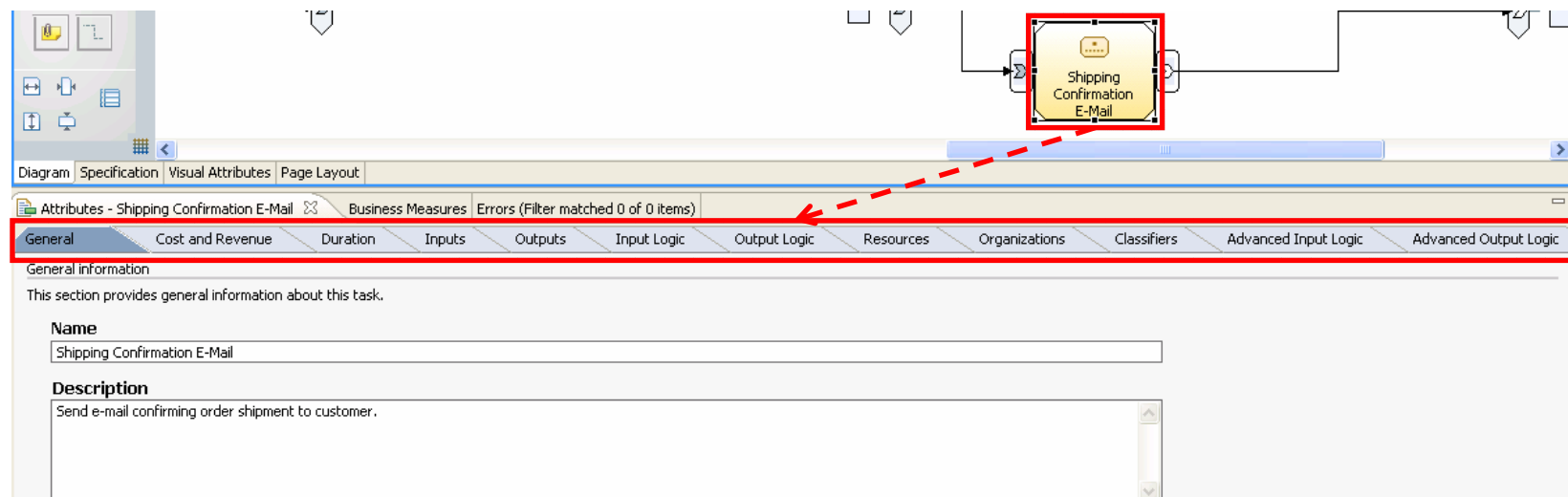
Business Process Modeling Notation
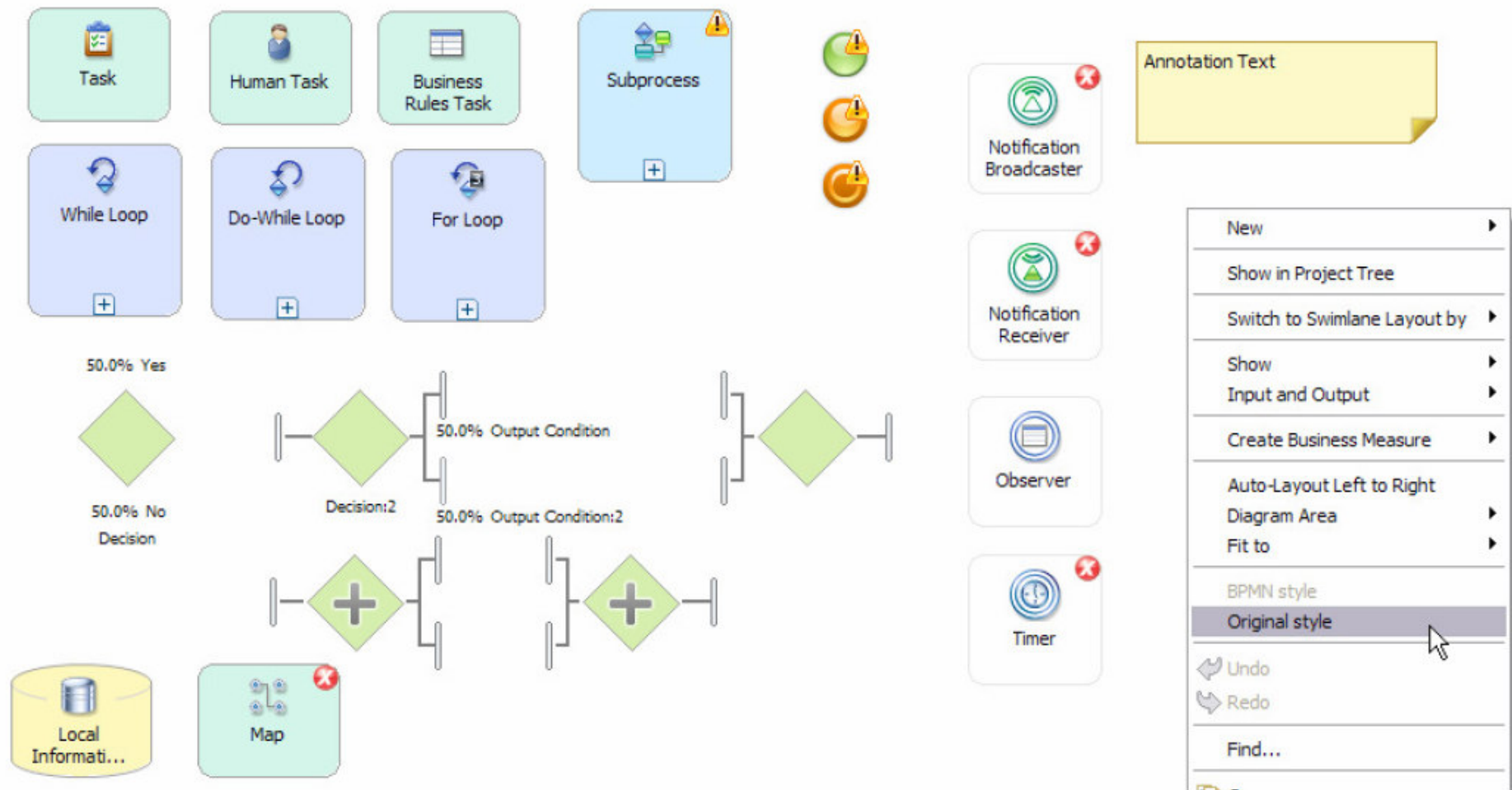
Add Detailed Process Information

- Through additional investigations and interviews, begin to identify detailed attributes

✓ Business Items	✓ Costs
✓ Roles	✓ Descriptions
✓ Resources	✓ Classifiers
✓ Durations	✓ Organizations

Business Items

- **Objects that are passed through the process, being consumed or transformed by various activities**
  - ▸ Could be business documents, work products, commodities

- **Build in data structures and descriptions**
  - ▸ Structures can be imported from XSD files, delimited text

- **Represent the various states that business items are in as they are transformed throughout the process**

- **Templates available for common patterns**
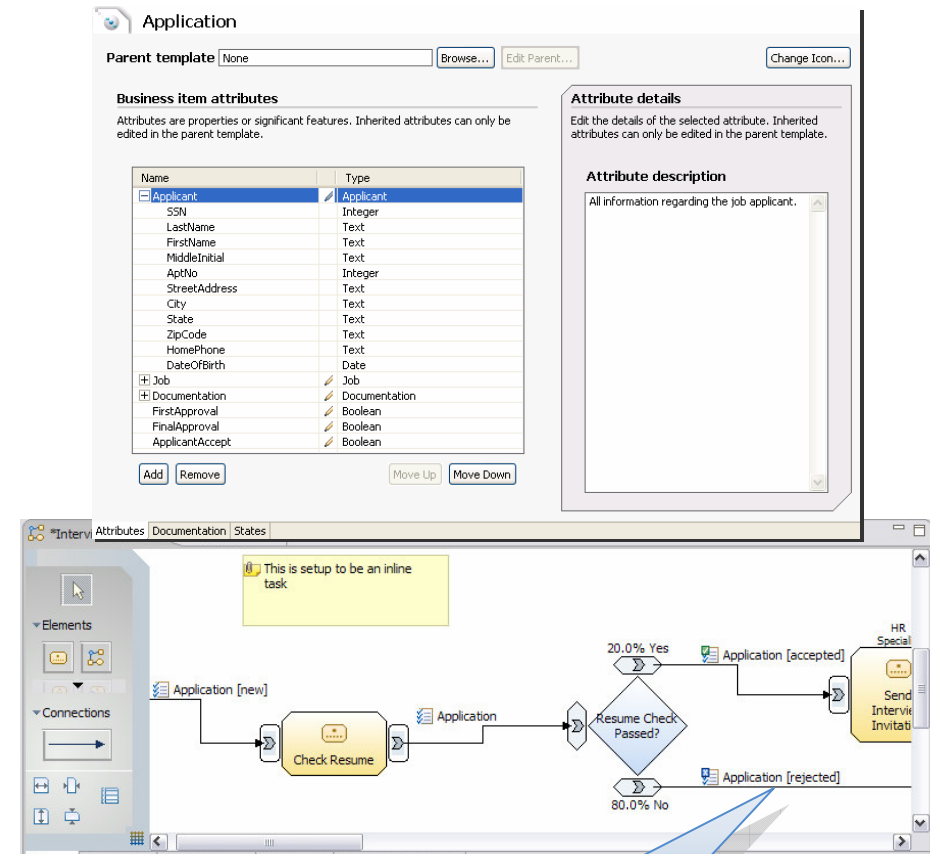
Incorporate the flow of business information into process models

Roles and Resources

- Resources represent people, equipment, or materials
  - ▸ Bulk and individual resources available
- Roles are job functions, many resources may be used to fulfill a role
- Assign complex cost and scheduling parameters
- Accurate role and resource requirements are critical for detailed simulation and analysis

Discovering the value of WebSphere Business Process Management - WebSphere Business Modeler   18
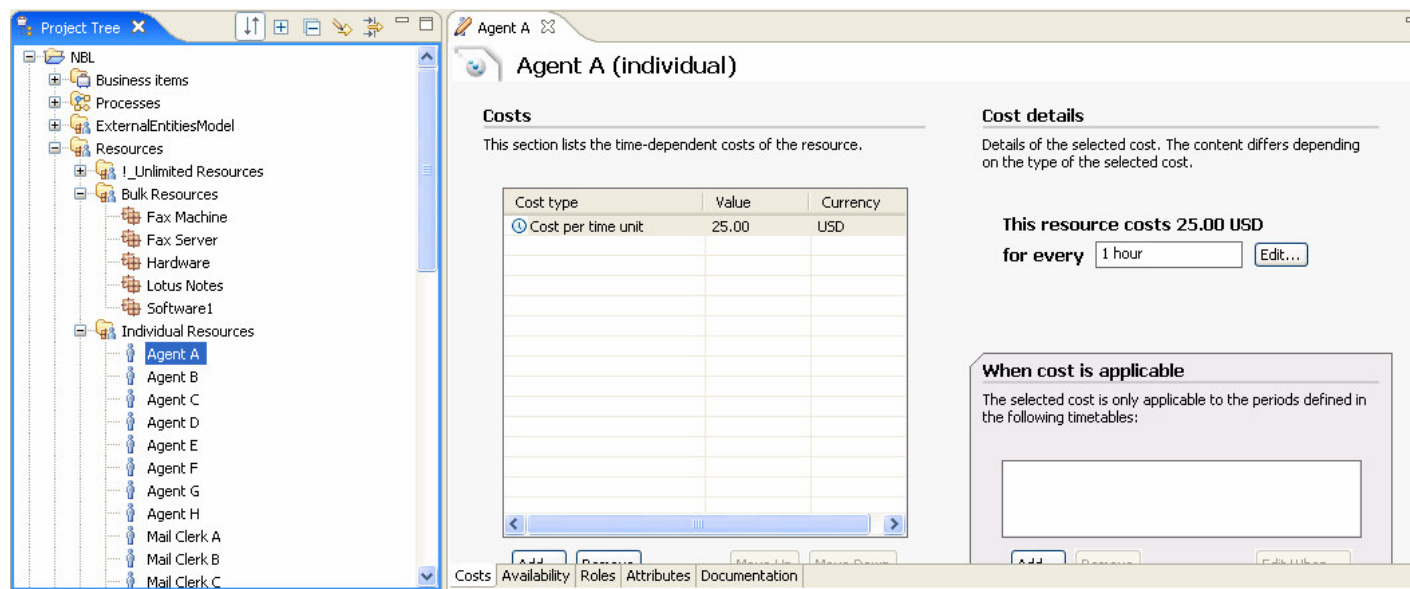
Classifiers

- Group or categorize related activities and/or processes
    - ▶ May assign multiple classifiers to a single process element

- Highlight important aspects of a process

- Free-form data fields that can be applied to process elements

- Assist in process understanding, issue prioritization, and decision making

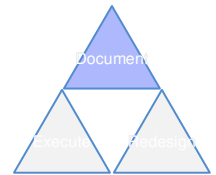- Expose to viewer through swimlanes, labels, color-coding

Inventory Clerk

Receive Inventory

5 days

Classifiers and classifier values

This section shows the associated classifiers and classifier values for .

	Classifiers	Classifier value
■	/O2C/Classifiers/Automation	Manual
■	/O2C/Classifiers/System	WPS
■	/O2C/Classifiers/Potential Improvement	No Improvement
	/Predefined elements (WebSphere Business Modeler)/Predefined classifiers/Quality ...	Quality control

Discovering the value of WebSphere Business Process Management - WebSphere Business Modeler

View the Model in "Three Dimensions"

Build Process Hierarchies

- Decompose processes into manageable sets of closely related activities

- Identify re-usable sections of process flow

Discovering the value of WebSphere Business Process Management - WebSphere Business Modeler

Reusable Process Elements

- ● Build a library of standard supporting artifacts
  - ▸ Business items, roles/resources, classifiers, organizations, etc.
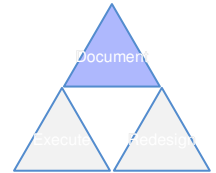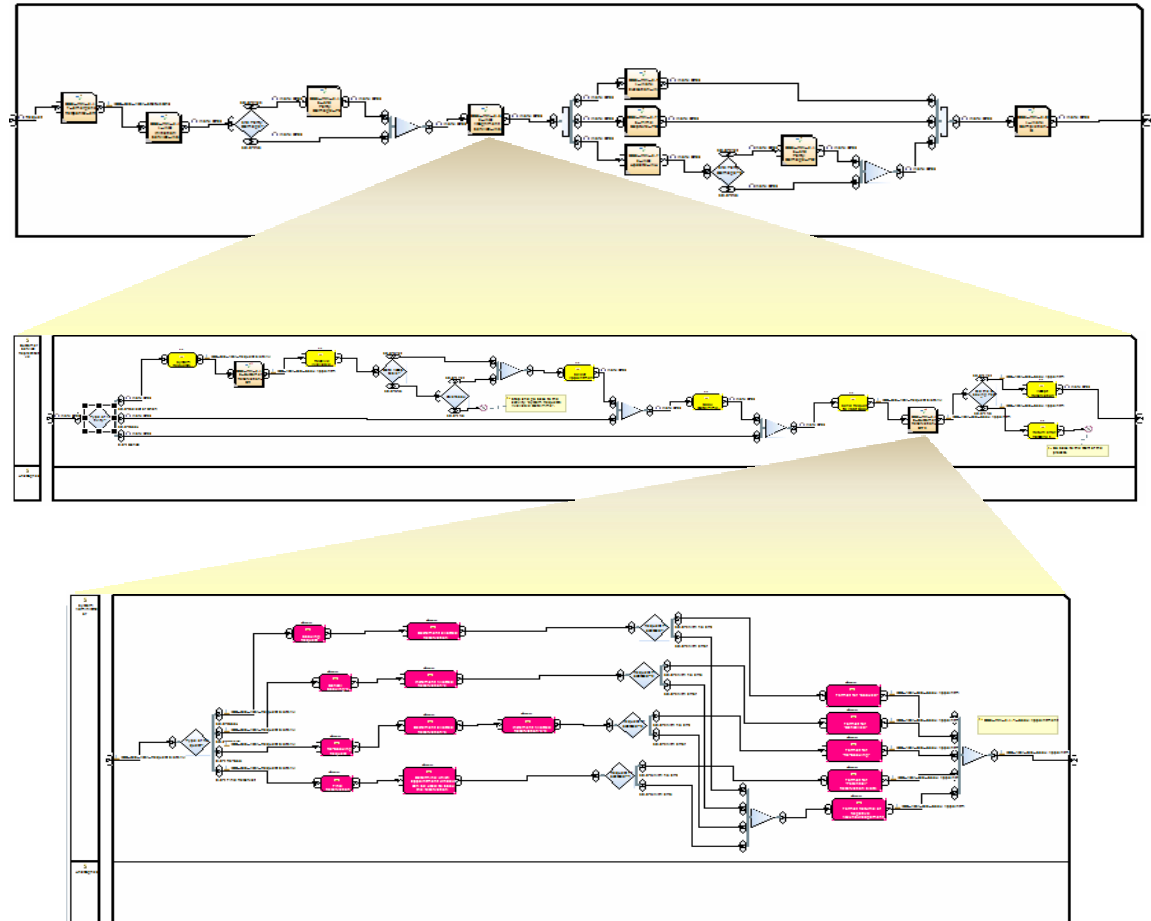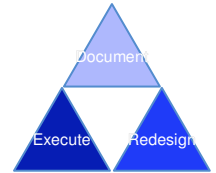
- ● Identify common business processes or tasks, make them available for re-use
  - ▸ Streamline business operations, reduce duplication of effort

- ● All elements available in the Modeler project tree are "global", and thus can be reused

- ● Share global elements between projects within the same Modeler workspace

Drag and drop global elements from Project Tree onto Process Editor canvas

Discovering the value of WebSphere Business Process Management - WebSphere Business Modeler
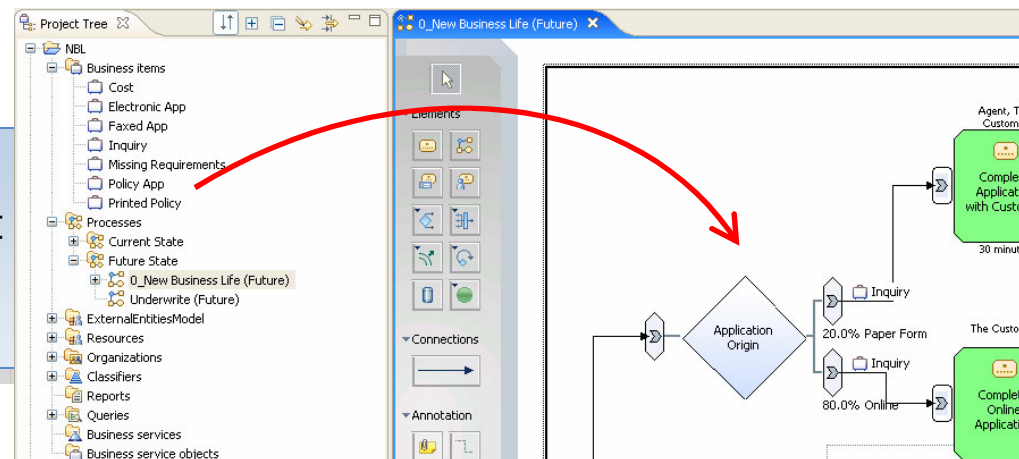
Search and Use Existing Web Services

WPS
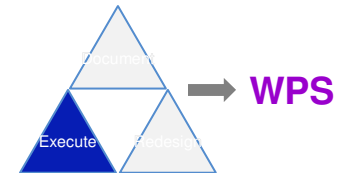
- Utilize business services and business service objects in process models

- Search WebSphere Service Registry and Repository from within Modeler, including use of service classifications to narrow down results

- Imported service elements are read-only, so that business users do not modify IT artifacts

- Alternatively, perform ad-hoc import of WSDL and XSD files
  - ▸ XSD import/export facilitates integration with Rational Data Architect

Discovering the value of WebSphere Business Process Management - WebSphere Business Modeler   23

Modeling for Execution Overview
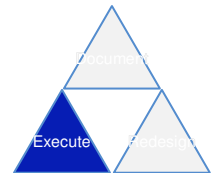
- Empower the business to help drive the design and function of IT systems that support business needs

- Reduced cycle time for implementing business process solutions

- Single business modeling tool targets both IBM BPM runtimes

BPEL

XPDL

WebSphere Business Modeler

WebSphere Integration Developer

P8 Process Designer

WebSphere Process Server

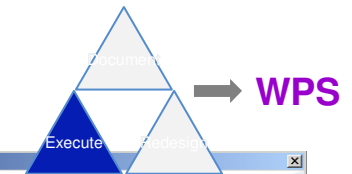**P8 Process Engine**
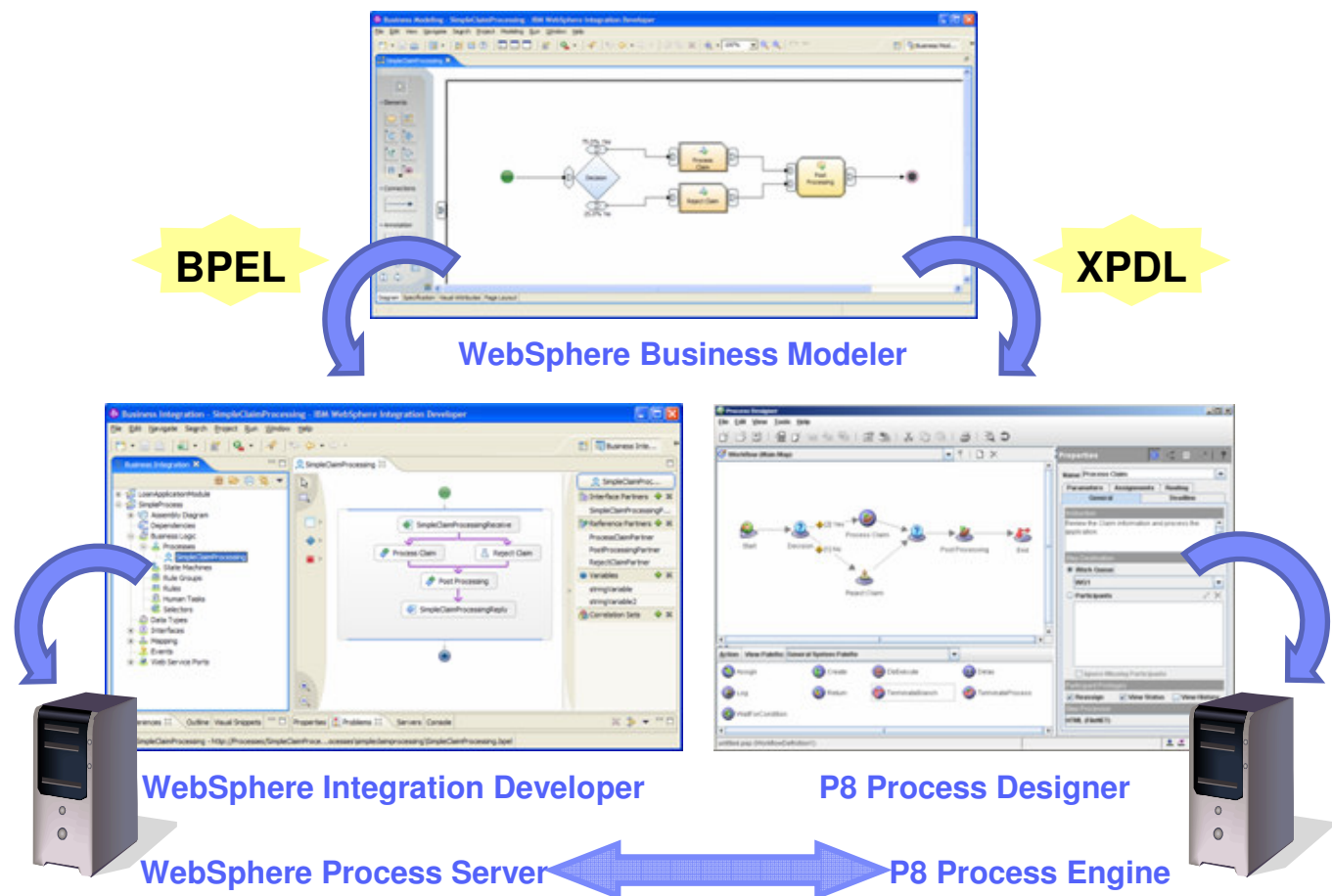
Separation of Business and IT Logic

→ **WPS**

- Default behavior upon export to WebSphere Integration Developer is to facilitate the separation of business logic from technical logic and details

- Insulates business logic from purely technical concerns, activity implementations from changes to the process model

- Merge updated business processes with previously exported iterations

- Report indicates changes made by developers that may be relevant to the business process models

WebSphere Business Modeler Export

WebSphere Integration Developer export details
Specify export details, then click Finish to export. It is recommended that you use project interchange format for traceability between Websphere Business Modeler and WebSphere Integration Developer.

☑ **Apply best practices export pattern**
The following artifacts will be generated for WebSphere Integration Developer based on best practices. For interoperability, it is advisable to adhere to this pattern.

Select the export option
Module Project + Integration Module Project + Library ▼
This option creates three related projects. It separates the business logic from the implementation details. Choose this option for best interoperability when you are working iteratively between WebSphere Business Modeler and WebSphere Integration Developer.

☑ Export using the standard project interchange format for other environments
Project Interchange Name
InterviewProcessPI
☑ Append timestamp to project interchange name

Target Project Names

Modeler Project Name	Module Project Name	Integration Module Project Name	Library Project Name
Interview	Interview	Interview_int	Interview_lib

< Back   Next >   Finish   Cancel

Business Logic Module
•BPEL
•Human Tasks (from Modeler)
•Business Rules (from Modeler)
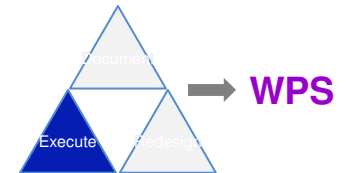
Implementation Module(s)
•Java
•Human Tasks (other)
•Business Rules (other)
•State Machines

Library
•Data Types
•Interfaces

Technical Attributes View

→ **WPS**

- Add technical details to processes just before exporting process definition to WebSphere Integration Developer

  ▸ Provide information on BPEL and WSDL Names, Namespaces, Descriptions, Port Types, etc.

  ▸ Select Long- or Short-Running process implementations.

  ▸ Choose between Request/Response or One-Way operations.

  ▸ Allow Decisions to be represented in BPEL as Switch activities if desired.

  ▸ Define SCA Implementation Types, Names, Descriptions, etc.

Attributes - v6_Single Data Object | Simulation Control Panel | Errors (Filter matched 20 of 20 items) | Technical Attributes View ☒

General   Interface   Request   Response   Implementation

▼ BPEL Attributes

Define BPEL process information below

Target namespace

Process display name

Process name

   Discovering the value of WebSphere Business Process Management - WebSphere Business Modeler

Human Task Modeling

WPS

- Business users define the behaviors for their daily activities

- Define potential owners and escalations

- Assignment of work to individuals or roles

  ▶ Define queries for work assignment much like you can in WebSphere Integration Developer

Human Task
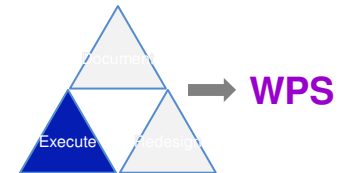
Primary Owner
This section displays the primary owner (the resources or staff role that will perform the task).

| Description | Determine the primary owner based on their role in the organization. |

○ Individual resource definition [   ] [Browse...]

⦿ Role [HR Specialist] [Browse...]

| | Days | Hours | Minutes | Seconds | Milliseconds | |
| Time required | 0 | 0 | 0 | 0 | 0 | [Clear] |

▼ **People assignment criteria**

You can specify an individual to be assigned this task at runtime, or you can specify a person with a particular role or from a particular organization to be assigned this task.

Name [Members by role name ▾]

Attribute name	Attribute value	
*Name		[...]
Name of alternative role 1		
Name of alternative role 2		

Escalations

You can work with escalations in either a table or tree format by clicking the Tree Format or Table Format icons. In the tree format, you can see and create relationships between the escalations.

Name	Description	
✉ Red Flag Escalation	Escalate to HR Manager for review potentially problematic information in an application.	[Add]
✉ Timeout Escalation	Escalate to HR Manager if task is not complete after 2 days.	[Remove]

▼ Details

This section shows the detailed information for each escalation.

| Name | Timeout Escalation |
| Description | Escalate to HR Manager if task is not complete after 2 days. |

Human Workflow Storyboarding

Create your human storyboards with a process context

Process Context
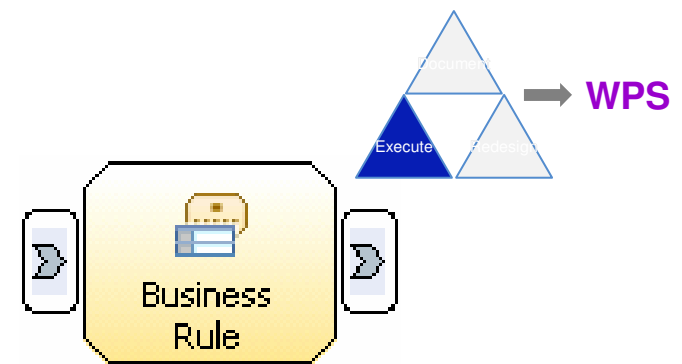Understand process behavior

Form Presentation
Confirm validity of form design and layout given process context

Storyboard Definition
Requires Simulation Snapshot, but no active simulation (as with case analysis)

Business Rule Modeling

WPS

- Business users can define the actions to take place under varying business situations

- Create templates for commonly used rule structures

- Note parameters for use in rule definition
  - e.g. salary or customerLastName

- Rules can be deployed to WebSphere Process Server as-is and managed/modified at runtime as conditions warrant

Process Simulation

- Based on metrics provided by subject matter experts

- Powerful simulation engine allows for detailed, statistically relevant investigations

- Specify input volumes, time constraints

- Visualize simulated behavior

- Improve understanding of process behavior
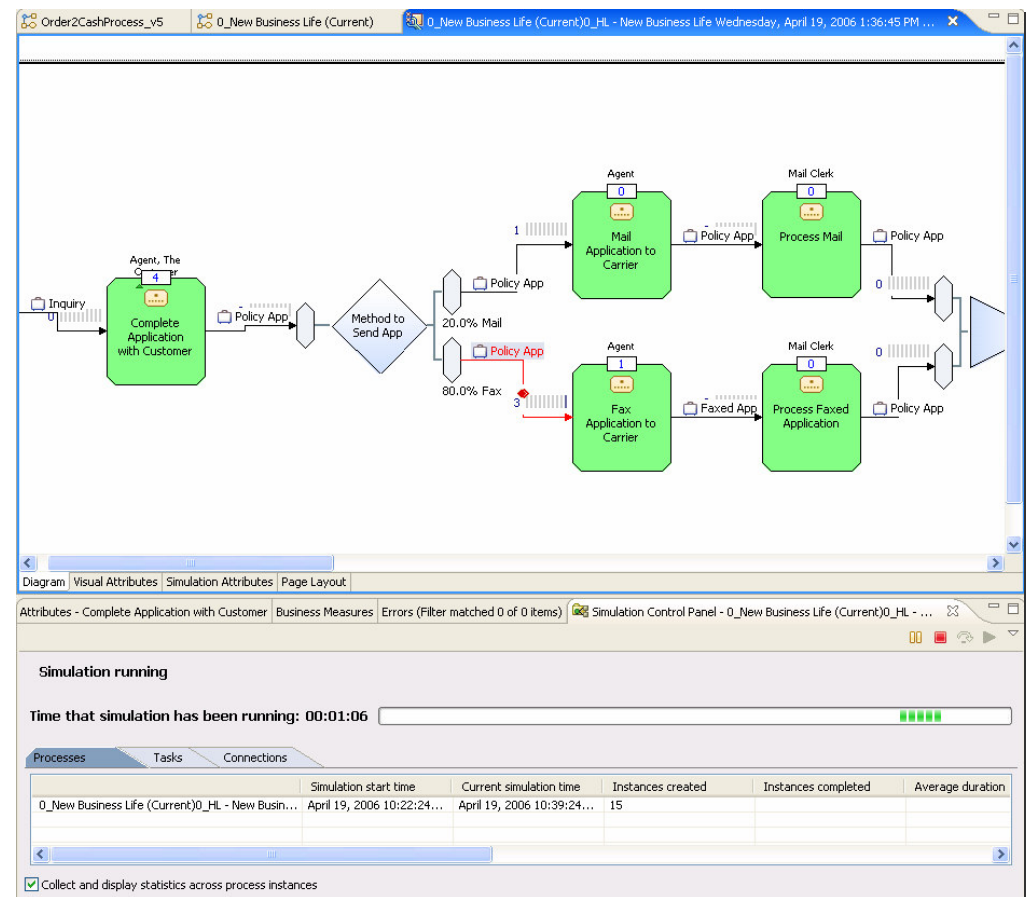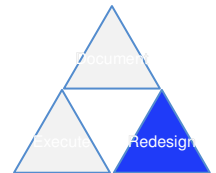
Forms Simulation

Interactive Form Simulation

Data-Driven
Process Simulation
Verifies process logic and
Form behavior

Interactive Form
Completion

Form Status

Process Analysis
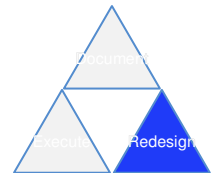
- Analyze simulation results or static process models
- Identify root cause of problems in current state processes
- Perform what-if analysis and calculate ROI on potential future states
- Holistic business view of processes, including costs, cycle time, etc.
- Investigate various utilization patterns for people and other resources

Activity Name	Average Elapsed Duration	Average Delay Duration	Average Throughput
0_HL - New Business Life	23 hours 30 minutes 13.75 seconds	1 day 6 hours 16.875 seconds	0.04 work item / hour
Assemble Policy	5 hours 4 minutes 13.5 seconds	4 hours 59 minutes 13.5 seconds	0.20 work item / hour
Complete Application with Customer	8 minutes 23.625 seconds	7 minutes 23.625 seconds	7.15 work items / hour
Fax Application to Carrier	3 minutes 36.27 seconds	1 minute 36.27 seconds	16.65 work items / hour
File Policy	6 hours 50 minutes 47.625 seconds	6 hours 47 minutes 47.625 seconds	0.15 work item / hour
Fork	0 seconds	0 seconds	undefined
Fork:2	0 seconds	0 seconds	undefined
Join	0 seconds	0 seconds	undefined
Mail Application to Carrier	3 minutes 54.666 seconds	54.666 seconds	15.34 work items / hour
Mail to Agent	6 hours 49 minutes 4.875 seconds	6 hours 47 minutes 4.875 seconds	0.15 work item / hour
Merge	0 seconds	0 seconds	undefined
Method to Send App	0 seconds	0 seconds	undefined
Photocopy Application	5 minutes 39.75 seconds	3 minutes 39.75 seconds	10.60 work items / hour
Pickup & Sort Policies	9 hours 39 minutes 58.875 seconds	9 hours 34 minutes 58.875 seconds	0.10 work item / hour
Print Policy	1 hour 15 minutes 29.925 seconds	1 hour 14 minutes 29.925 seconds	0.79 work item / hour
Process Faxed Application	14 minutes 28.15 seconds	12 minutes 28.15 seconds	4.15 work items / hour
Process Mail	15 minutes 24 seconds	10 minutes 24 seconds	3.90 work items / hour
Route Application	13 minutes 2.25 seconds	12 minutes 2.25 seconds	4.60 work items / hour
Underwrite	1 second	0 seconds	3,600.00 work items / hour

Current State – Times & Costs
Case Analysis with Unlimited Resources

Probability	Average Process Time (min:sec)	Average Cost	Case	Case Description
32.91%	10:11	$5.40	1	Paper & Mail, Complex
32.10%	3:11	$1.67	2	Paper & Mail, Simple
15.01%	14:11	$7.56	3	Printed Phone Calls (Complex)
5.20%	3:21	$1.77	4	Paper & Mail, Work not Complete, Simple
5.20%	11:11	$5.93	5	Email, Complex
4.85%	4:11	$2.20	6	Email, Simple
3.58%	10:21	$5.50	7	Paper & Mail, Work not Complete, Complex
0.81%	11:21	$6.03	8	Email, Work not Complete, Complex
0.35%	4:21	$2.30	9	Email, Work not Complete, Simple

Future State – Times & Costs
Case Analysis with Unlimited Resources

Probability	Average Process Time (min:sec)	Average Cost
35.57%	8:16	$4.38
33.03%	1:51	$0.96
13.51%	7:51	$4.16
4.50%	1:54	$0.96
3.93%	8:16	$4.38
4.85%	1:51	$0.96
3.70%	8:19	$4.38
0.69%	8:19	$4.38
0.23%	1:54	$0.96

Simulation Results – Weighted Average Analysis

Current Process Results

Resources	Items per hour	Elapsed Duration	Average Cost
Unlimited Resources	7.55	7.56	$4.20
Current Resources	3.41	17.33	$4.02

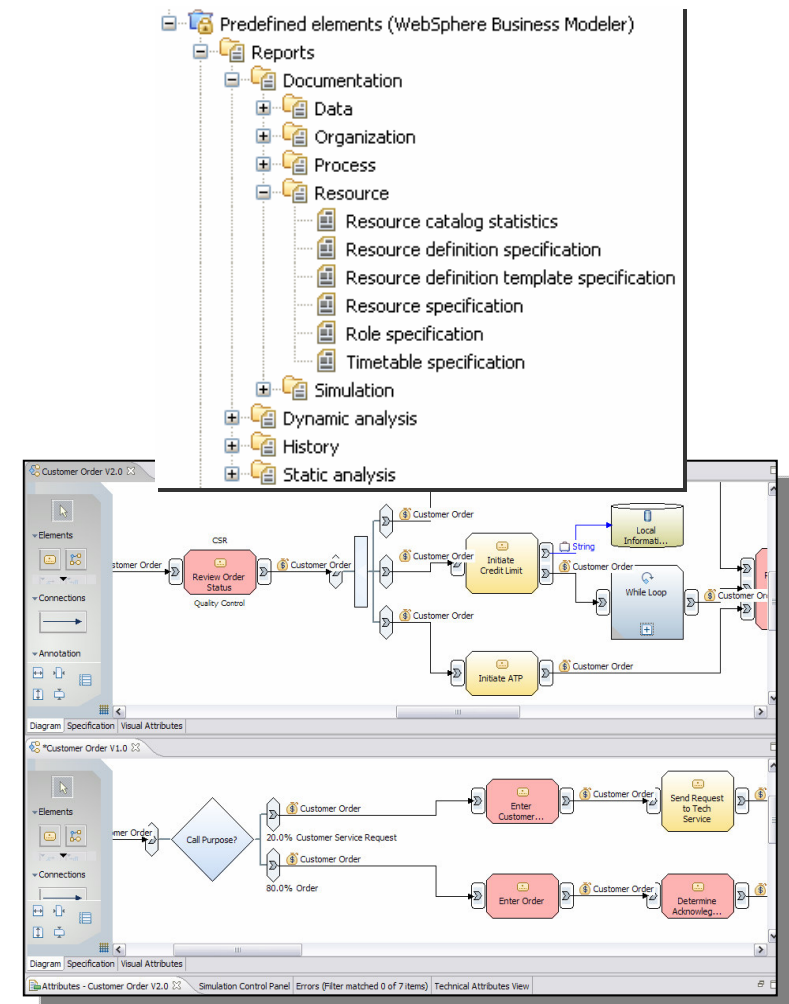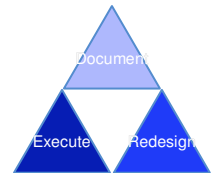Unlimited Resources show the limitations of the process itself

Future Process Results

Resources	Items per hour	Elapsed Duration	Average Cost
Unlimited Resources	10.95	5:28	$2.89
Current Resources	.80	1:15:19	$2.59
Balanced	2.45	24:28	$2.75

Re-allocating resources balance costs with productivity

Discovering the value of WebSphere Business Process Management - WebSphere Business Modeler

Reports

- Extract useful information from models in an easily consumable format
  - Microsoft® Word (.docx)
  - PDF

- Choose from dozens of pre-defined reports, or build custom reports

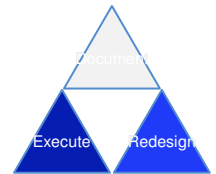- Integration with Crystal Reports

- Visually compare process models

Business Rules and Human Tasks Reporting

Updated
Predefined Reports
Includes details of Business
Rules and Human Tasks

**Modeler XML
Format**
Includes full details of
Business Rules and
Human Tasks

Business Measures Definition

- Business users identify their Key Performance Indicators and other business measures, relate them to the process or individual process activities

- Information on what is to be measured is defined in Modeler, details on how to perform the measurements are defined in the Monitor Development Toolkit (plug-in to WebSphere Integration Developer or Rational Application Developer)
  - Modeler exports a skeleton Monitor Model (.mm) file
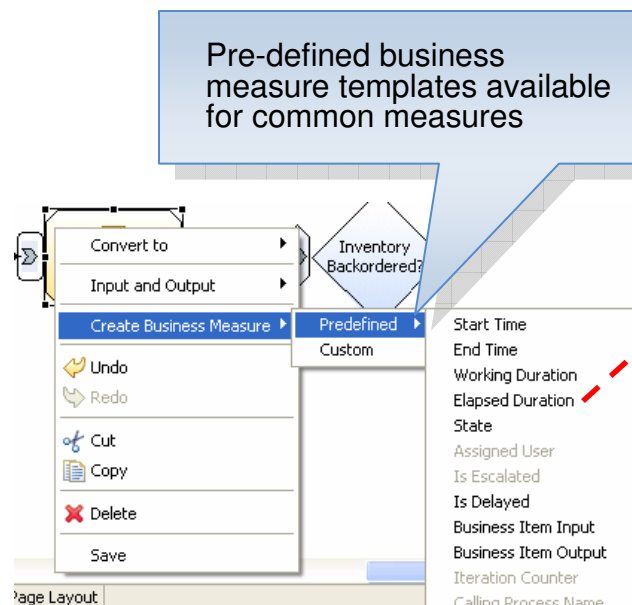
Pre-defined business measure templates available for common measures

Industry Content: KPI Library

Benefits

- Align with open standards on process measurements

- Strive to beat the competition!

KPIs are categorized based on APQC

Corresponding target values available through GBS Benchmark Wizard and APQC

Monitored Values Import
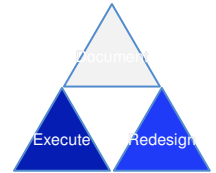
- ● Refine process models by feeding live monitored business data back into models

  - ▶ Update activity durations and costs, decision percentages

- ● Perform simulations with updated data to gain a more accurate understanding of the process

  - ▶ Modifications to the process may be suggested as a result of this further investigation and analysis

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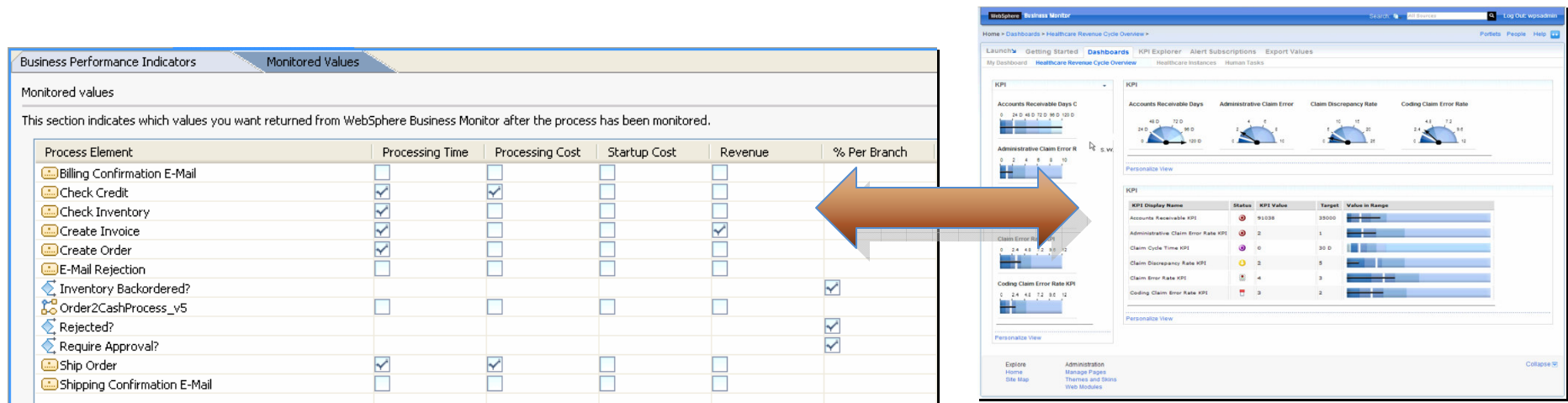
Collaboration with Publishing Server
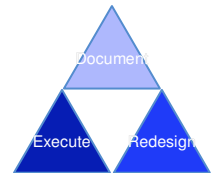
- Browser-based interface to published process models

- Share models with employees across multiple geographic locations without requiring them to have Modeler installed on their desktop
  ▸ Includes access to detailed process attributes and any attachments

- Users with proper permissions can view and make comments on the process or individual process elements
  ▸ Gain feedback on live processes implementations or proposed future states

- Interface provided by The Business Space
  ▸ Based on Web 2.0

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Publishing Server Layout

Benefits
- Easy Collaboration
- Integrated BPM

Filtered Project Tree

All Publishing Server capabilities delivered as iWidgets in *Business Space Powered by WebSphere*

Process and element attributes shown in pop-up window

Track read and unread comments by user
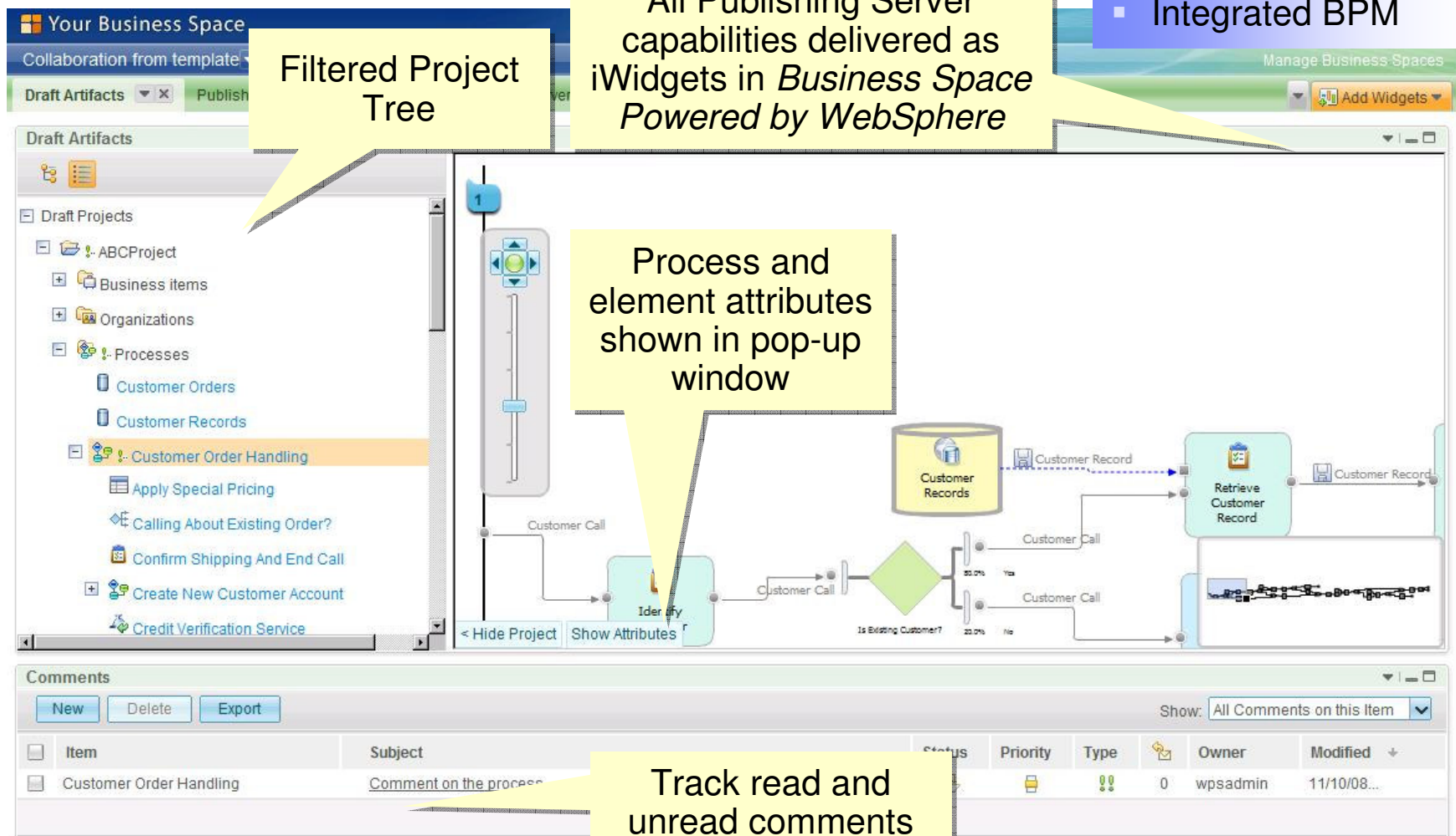
Questions
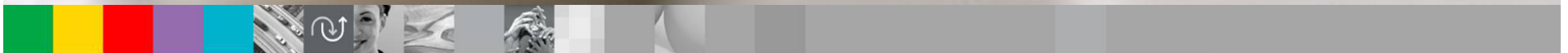
Thank You

Backup

Completing the process model – WebSphere Business Modeler

Business Process Modeling – (basic) Documentation

Bulk Resources	Role	Individual Resources

Resources

Business Item

Inputs

Outputs

Task

Gateway

Process

Business Process Modeling – (accurate) Documentation

Additional information to describe the business process with higher accuracy.

Business Process Modeling – (detailed) Documentation

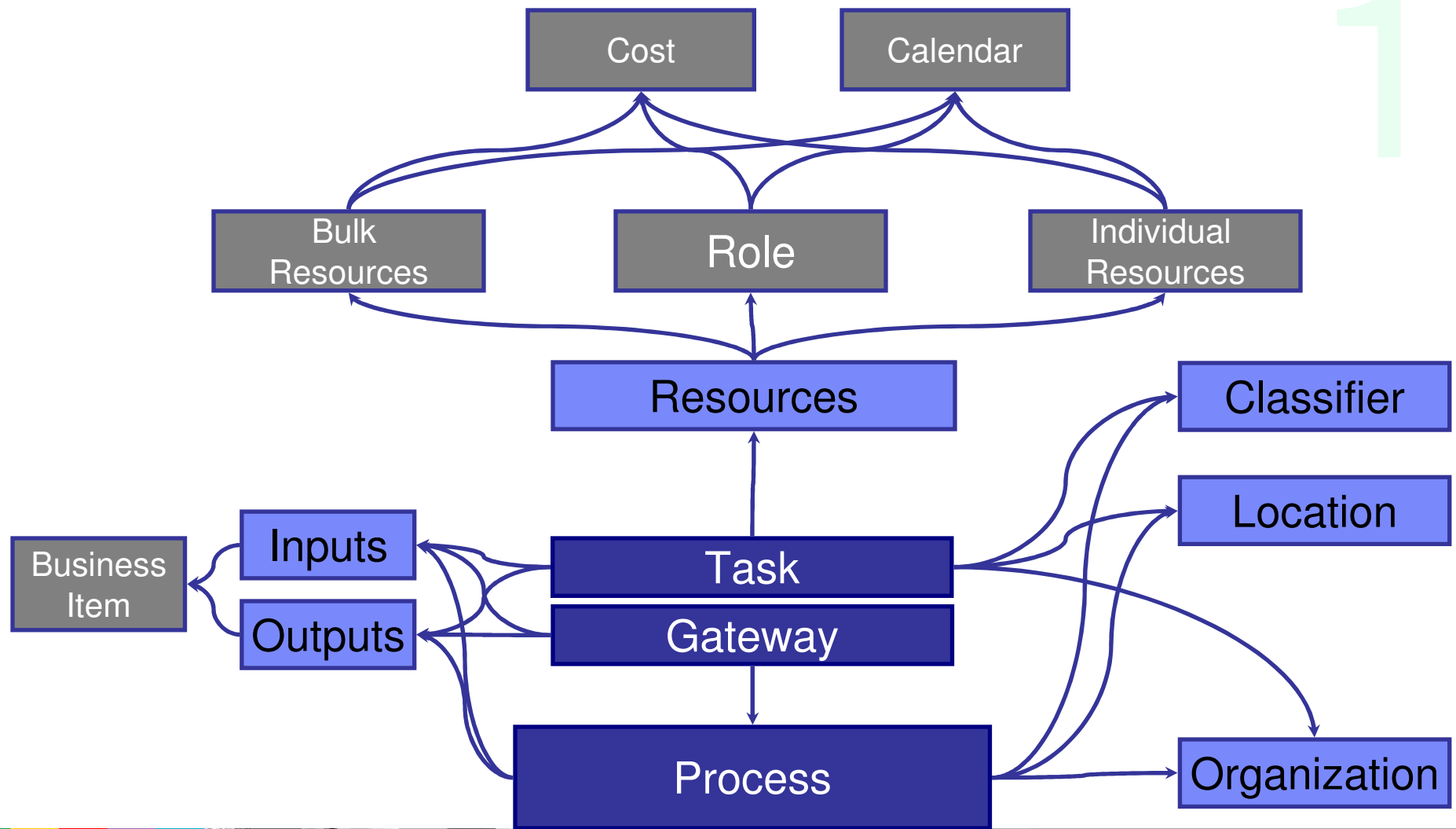Additional information to fully describe the business process with all details possible.

Cost

| Basic Calendar | er | Exempt. Calendar |

Bulk Resources

Role

Individual Resources

Resources

Classifier

Location

Notification Broadcaster	Notification Receiver	Observer	Timer
Business Rules Task	Human Task	Basic Task	Loops	(Sub-) Process Task
Simple Decision	Multiple Decision	Merge	Fork	Join

Business Item (qualified)

Business Item

Notification Item

Inputs

Outputs

Process

Organization

Business Process Modeling – (basic) Simulation

Additional information for time and cost behavior to run simulations

One time cost

Cost per time unit

Cost per quantitiy and time unit

Basic Calendar | Exempt. Calendar

Bulk Resources

Resource required time for a task

Role

Resource required time for a task

Individual Resources

Resource required time for a task

Resources

Classifier

One time cost per token creation

Business Item (qualified)

Business Item

Notification Item

Inputs

Outputs

Notification

REVENUE

Timer

Cost per execution per time unit

One time start-up cost

Cost to wait for a resource

Time to wait for a resource

Task

Time required to finish task

Simple Decision | Multiple Decision | Merge | Fork | Join

Location

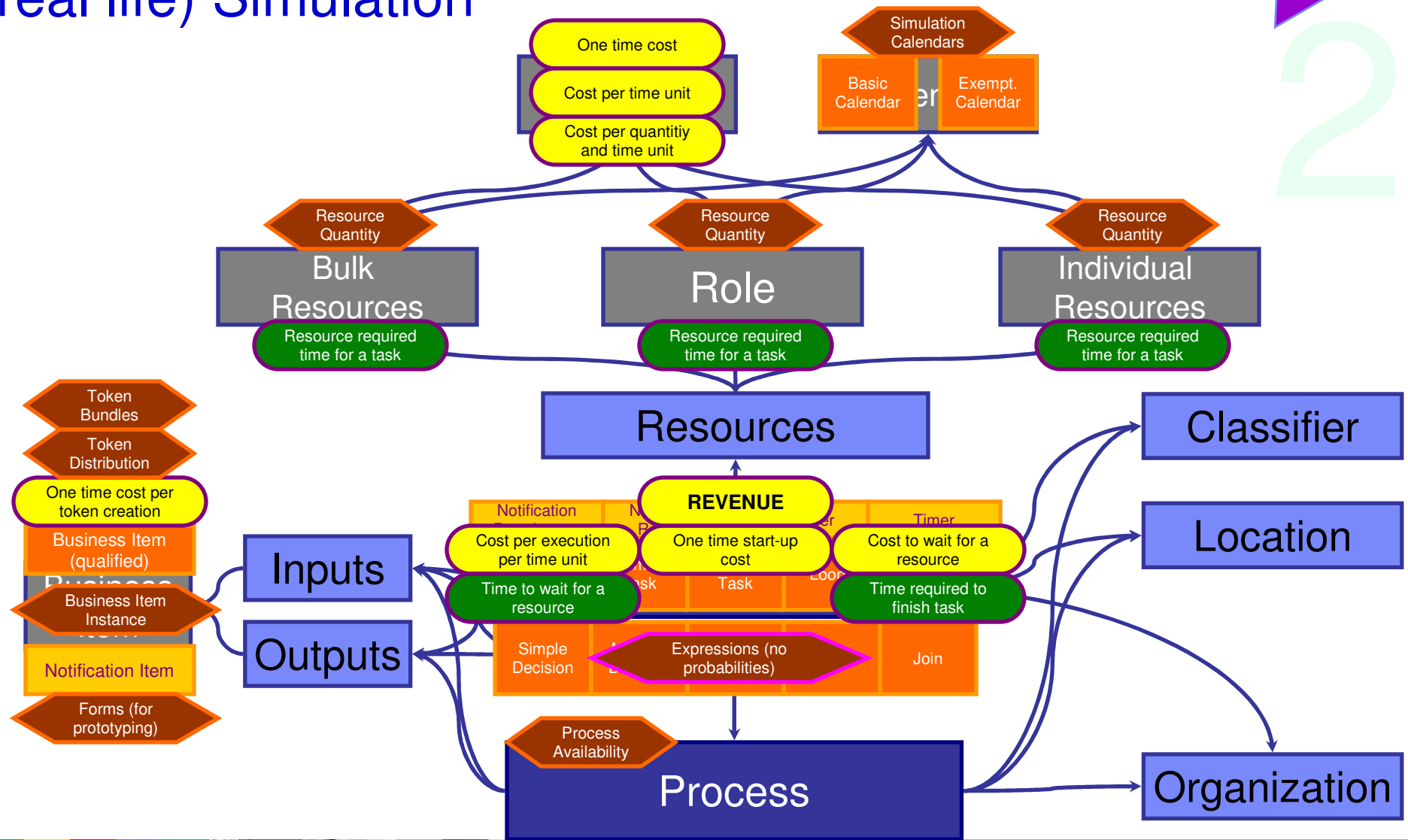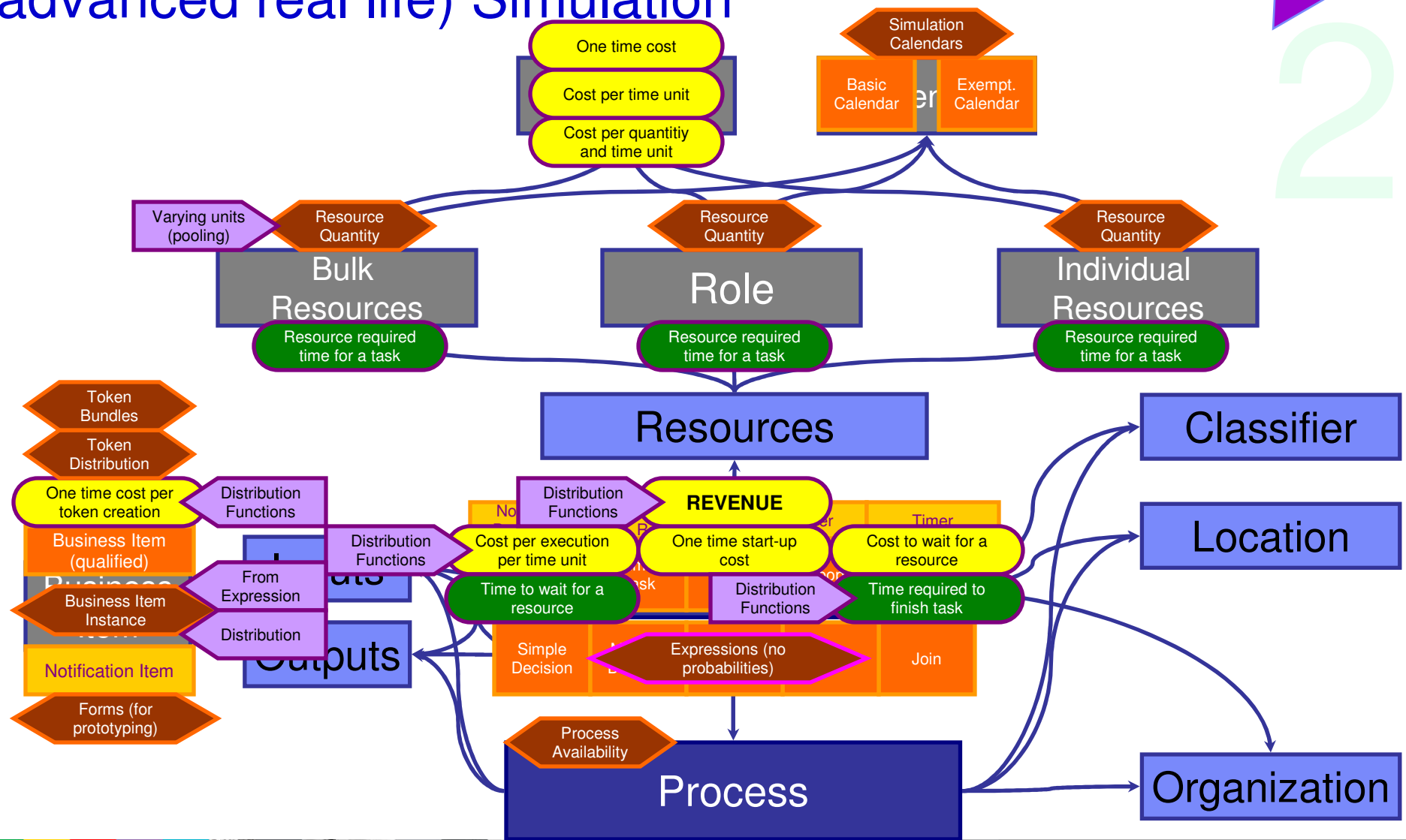**Process**

Organization

Business Process Modeling – (real life) Simulation

Additional data to sharpen and calibrate simulations for process optimization.

One time cost

Cost per time unit

Cost per quantitiy and time unit

Simulation Calendars

Basic Calendar | Exempt. Calendar

Resource Quantity

Resource Quantity

Resource Quantity

Bulk Resources

Role

Individual Resources

Resource required time for a task

Resource required time for a task

Resource required time for a task

Resources

Classifier

Location

REVENUE

Token Bundles

Token Distribution

One time cost per token creation

Business Item (qualified)

Business Item Instance

Notification Item

Forms (for prototyping)

Inputs

Outputs

Notification

Cost per execution per time unit

One time start-up cost

Cost to wait for a resource

Timer

Time to wait for a resource

Task

Time required to finish task

Simple Decision

Expressions (no probabilities)

Join

Process Availability

Process

Organization

Business Process Modeling – (advanced real life) Simulation

Additional data to sharpen and calibrate simulations for process optimization.

One time cost

Cost per time unit

Cost per quantitiy and time unit

Simulation Calendars

Basic Calendar

Exempt. Calendar

Varying units (pooling)

Resource Quantity

Resource Quantity

Resource Quantity

Bulk Resources

Role

Individual Resources

Resource required time for a task

Resource required time for a task

Resource required time for a task

Token Bundles

Token Distribution

One time cost per token creation

Distribution Functions

Business Item (qualified)

From Expression

Business Item Instance

Distribution

Notification Item

Forms (for prototyping)

Distribution Functions

Resources

Classifier

Distribution Functions

REVENUE

Timer

Cost per execution per time unit

One time start-up cost

Cost to wait for a resource

Location

Time to wait for a resource

Distribution Functions

Time required to finish task

Simple Decision

Expressions (no probabilities)

Join

Process Availability

Process

Organization

Business Process Modeling – Execution – Interactive Process Design

Only limited process scenarios can be directly deployed and tested (prototyping)

3

Cost

Calendar

Escalation

Escalation

People Directory matching

People Directory matching

Role

Individual Resources

Resources

Data Mappings

Business Item (qualified)

Business Item

Forms

Inputs

Outputs

Business Rules (qualified)

Forms

(existing) Services

| Business Rules Task | Human Task | Basic Task | Loops | (Sub-) Process Task |
| Simple Decision | Multi... Decision | Expressions | ...rk | Join |

(Basic) Monitor Model

Process

Important:
1. Process model is deployed to a test environment running on WPS with user interfaces implemented with IBM Business Space.
2. People resource requests must be mapped to the People directory linked to IBM Business Space.
3. Interaction with people is based solely on assigned forms (Lotus Forms).
4. Automated activities call implemented services e.g. maintained in WSRR and already provided by IT.
5. A basic monitor model can also be generated to be tested in IBM Business Space.

Business Process Modeling – Execution – Transformation to WID 4 WPS

All types of process scenarios automated after further specifications were done in WID (full process automation)

Cost

Timetables for people escalation and process expiration

Escalation

Escalation

People Directory matching

People Directory matching

Role

Individual Resources

Resources

Data Mappings

Business Item (qualified)

Business Rules (qualified)

Forms

(existing) Services

Business Item

Inputs

Business Rules Task

Human Task

Basic Task

Technical attributes to define object transformation to WID

Outputs

Simple Decision

Multi... Decision

Expressions

Fault links to show ‚exception‘ behavior

Forms

(Basic) Monitor Model

(Basic) Monitor Model to be enhanced in WID

Process

Technical attributes to ease process transformation to WID

Important:
1. Process model can be enriched with technical information (technical attributes) before export to WID to accelerate process object transformation from WBM to WID for process automation with WPS.
2. All missing technical specifications can be added to the process model in WID – depending on process engineering guidelines agreed in an organization.
3. Some specifications are optional (e.g. forms are not required if other end user interaction user interfaces are used, or business rules must not be specified if not used during process execution, etc)
4. Monitor models as well can be initially defined in WBM for further enhancements in WID, to be used by WB Monitor.
5. Traceability between WBM and WID allows to keep models in sync no matter where process changes are performed.

Legend (for recent slides)

WB Modeler only define what they need to define to satisfy their modeling purpose.

x	Basic process object
x	Additonal process object for process documentation
x	WB Modeler: Generic implementation of specific process object
x	WB Modeler: Specific implementation type of a dedicated process object
x	WB Modeler: Additional process objects
x	WB Modeler: Cost information for analysis assigned to dedicated process object
x	WB Modeler: Time information for analysis assigned to dedicated process object
x	WB Modeler: Settings to define simulation scenarios
x	WB Modeler: Distribution functions to define simulation scenarios more precisely
x	WB Modeler: Specifications for interactive process design (process test in ,sandbox)
x	WB Modeler: Technical attributes for process transformation to IT for process automation with IBM WPS (hand-off to IT)

Growing skill requirements in WBM

1
2
3

Repository Integration

Graphical Search

Text Search & Filtering

Repository Navigator